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Vehicle Brake Tester

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EET-491
SENIOR DESIGN PHASE II

Project:

VEHICLE BRAKE TESTER (VBT)

By: Muzafar Moshref

April 27, 1998

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Abstract

Electrical Engineering Technology Senior Design Project

Vehicle Brake Tester (VBT)

By Muzafar Moshref 04/27/1998

The vehicle brake tester is capable of testing Anti-lock Brake System (ABS) braking cycles more quickly and accurately than the current method of testing. This tester consists of four identical channels, similar to today's existing anti-lock brake system.

ABS is controlled by its Electronic Control Unit (ECU), which has a microcontroller. This microcontroller electronically controls all four brake channels in the vehicle.

VBT simulates the ECU of ABS for heavy-duty vehicles. The difference between the ECU of an ABS and the VBT is that an ABS gets its input from the wheel speed sensors, whereas VBT uses a set of eight-position switches to set a controlled frequency as input.